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From the INTERNATIONAL SEAR

I G AUTHORITY

To:

JAMES F. HALEY
C/O FISH & NEAVE
1251 AVENUE OF THE AMERICAS
NEW YORK, NY 10020

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## PC<sub>1</sub>

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

	FISH & NEAVE - PATEN L	(PCT Rule 44.1)
	REFERRED TO	Date of Mailing O. A. LLINI OCCO
	NOTED BY	Date of Mailing (day/month/year) 9 JUN 2003
Appl	icant's or agent's file reference	
GFI/	102 PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.		International filing date
PCT	/US02/41510	(day/month/year) 24 December 2002 (24.12.2002)
	icant	
WIL	DT, STEFAN	DOCKETED FOR Aug. 9, 2003
1.	The applicant is hereby notified that the international sear	ch report has been established and is transmitted herewith.
	Filing of amendments and statement under Article 19:	
	The applicant is entitled, if he so wishes, to amend the cla	
	When? The time limit for filing such amendments is international search report.	normally two months from the date of transmittal of the
	Where? Directly to the International Bureau of WIPC 1211 Geneva 20, Switzerland, Facsimile No.	), 34, chemin des Colombettes : (41-22) 740.14.35
	For more detailed instructions, see the notes on the a	ccompanying sheet.
2.	The applicant is hereby notified that no international search Article 17(2)(a) to that effect is transmitted herewith.	th report will be established and that the declaration under
3.	With regard to the protest against payment of (an) addit	ional fee(s) under Rule 40.2, the applicant is notified that:
	the protest together with the decision thereon has been the protest together with the tests of both the re-	en transmitted to the International Bureau together with the protest and the decision thereon to the designated Offices.
		plicant will be notified as soon as a decision is made.
	no decision has been made yet on the process, are up	
	Reminders	
	applicant wishes to avoid or postpone publication, a notice of war must reach the International Bureau as provided in Rules 90 bis. preparations for international publication.	al application will be published by the International Bureau. If the rithdrawal of the international application, or of the priority claim, and 90 bis.3, respectively, before the completion of the technical
	examination must be filed if the applicant wishes to postpone that (in some Offices even later); otherwise the applicant must acts for entry into the national phase before those designated Offices.	
	In respect of other designated Offices, the time limit of 30 month	ns (or later) will apply even if no demand is filed within 19 months.
	See the Annex to Form PCT/IB/301 and, for details about the	applicable time limits, Office by Office, see the PCT Applicant's

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703)305-3230

Guide, Volume II, National Chapters and the WIPO Internet site.

Deboran Crouch, Ph.D. Roberts

Telephone No. 703-308-0196

(See notes on accompanying sheet)

Form PCT/ISA/220 (April 2002)



## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference GFI/102 PCT	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US02/41510	International filing date (day/mont 24 December 2002 (24.12.2002)	
Applicant WILDT, STEFAN		*
according to Article 18. A copy is being  This international search report consists of	transmitted to the International B	
a. With regard to the language, the	he international search was carried ounless otherwise indicated under the	out on the basis of the international application in the is item.
	carried out on the basis of a translat	tion of the international application furnished to this
b. With regard to any nucleotide search was carried out on the b		sed in the international application, the international
contained in the international	application in written form.	
filed together with the interna	ational application in computer read	able form.
furnished subsequently to this	s Authority in written form.	
furnished subsequently to this	s Authority in computer readable for	rm.
the statement that the subsequent international application as fi		sting does not go beyond the disclosure in the
the statement that the information been furnished.	ation recorded in computer readable	e form is identical to the written sequence listing has
2. Certain claims were found to	unsearchable (See Box I).	
3. Unity of invention is lacking	g (See Box II).	
4. With regard to the title,	ttad by the smalleaut	
the text is approved as submit	tted by the applicant. by this Authority to read as follows:	
Lie text has been established	by this Audionty to read as follows:	•
5. With regard to the abstract,		
the text is approved as submit	tted by the applicant.	
the text has been established, within one month from the da	according to Rule 38.2(b), by this ate of mailing of this international se	Authority as it appears in Box III. The applicant may, earch report, submit comments to this Authority.
6. The figure of the drawings to be publi	ished with the abstract is Figure No	· )
as suggested by the applicant.		None of the figures
because the applicant failed to	suggest a figure.	
because this figure better char	racterizes the invention.	

Form PCT/ISA/210 (first sheet) (July 1998)

A. CLA	A. CLASSIFICATION OF SUBJECT MATTER							
IPC(7)	: A01K 67/027; C12N 9/10, 1/04, 1/16, 1/18							
US CL	: 800/13-18; 435/193, 252.3, 254.11, 254.51.	254.21, 254.	23, 254,3, 254,4, 254,6, 254,7	325 463				
According to	o International Patent Classification (IPC) or to both	national class	sification and IPC	, 525, 405				
B. FIEI	LDS SEARCHED							
Minimum de	companies concluded (-land) Gradient Control			<del></del>				
Minimum do	ocumentation searched (classification system followed 800/13-18; 435/193, 252.3, 254.11, 254.51, 254.21,	l by classifica	ation symbols)					
0.5	300/13-10, 433/133, 232.3, 234.11, 234.31, 234.21,	254.25, 254.	.3, 234.4, 234.6, 234.7, 325, 4	63				
Documentati	ion searched other than minimum documentation to the	e extent that	such documents are included in	n the fields seembed				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic da	ata base consulted during the international search (nar	me of data ha	se and where practicable con	mh tarme usad)				
EAST, CAP	LUS, BIOSIS, EMBASE	inc or cam on	ise and, where practicable, sear	ch terms used)				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT							
Category *	Citation of document, with indication, where	appropriate,	of the relevant passages	Relevant to claim No.				
Α	MIELE, R. G. et al. Glycosylation of Asparagine-	28 of Recom	binant Staphylokinase with	1-60				
	High-Mannose-Type Oligosaccharides Results in a	Protein with	Highly Attenuated	1-00				
	Plasminogen Activator Activity. Journal of Biologic	cal Chemistr	v. 19 March 1999, Volume					
	274, No. 12, pages 7769-7776.		,					
	·							
Α	MARTINET, W. et al. Modification of the Protein	Glycosylatic	on Pathway in the	1-60				
	Methylotrophic Yeast Pichia Pastoris. Biotechnolog	v Letters. D	ecember 1998 Volume 20	1-00				
	No. 12, pages 1171-1177.	,,	voimber 1990, voidine 20,					
Α	MARAS, M. et al. In Vitro Conversion fo the Car	hohydrata M	loiety of Europa	1.60				
A	Glycoproteins to Mammalian-Type Oligosaccharide	c lournal of	Piochomistme 1007	1-60				
	Volume 249, pages 701-707.	a. Journal of	Biochemistry, 1997.,					
	volume 2 15, pages 701 707.			•				
•	DAIL T S et al Species Species Verisies in Cl							
A	RAJU, T. S. et al. Species-Specific Variation in Gl	ycosylation c	of IgG: Evidence for	1-60				
	Species-Specific Sialylation and Branch-Specific Ga	uactosylation	and importance for					
	Engineering Recombinant Glycoprotein Therapeutic 5, pages 477-486.	s. Glycobiol	ogy. 2000, Volume 10, No.					
	3, pages 477-460.		•	•				
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<b>F</b>								
Further	documents are listed in the continuation of Box C.		See patent family annex.					
* S	pecial categories of cited documents:	*T*	later document published after the inter	national filing data or priority				
			date and not in conflict with the applica	tion but cited to understand the				
	defining the general state of the art which is not considered to be lar relevance		principle or theory underlying the inver	ution				
or particu	iai icevane	"X"	document of particular relevance; the c	laimed invention cannot be				
"E" carlier ap	plication or patent published on or after the international filing date		considered novel or cannot be considered	ed to involve an inventive step				
"L" document	which may throw doubts on priority claim(s) or which is cited to		when the document is taken alone	·				
	the publication date of another citation or other special reason (as	-Y-	document of particular relevance; the c	laimed invention cannot be				
specified)			considered to involve an inventive step	when the document is				
"O" document	referring to an oral disclosure, use, exhibition or other means	1	combined with one or more other such	documents, such combination .				
O COCUMENT	retering was our assessme, ase, exhibition of our means		being obvious to a person skilled in the	ап				
	published prior to the international filing date but later than the	<b>.</b> &.	document member of the same patent fa	unily				
	priority date claimed							
Date of the ac	Date of the actual completion of the international search  Date of mailing of the international search report							
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15 May 2003		U 3 U	Leffica Tuli					
-	iling address of the ISA/US	Authorized		4- ^				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents  Deborair Crouch, Ph.D.  Reluctory								
	P.O. Box 1450							
	Alexandria, Virginia 22313-1450 Telephone No. 703-308-0196							
Facsimile No. (703)305-3230								

Form PCT/ISA/210 (second sheet) (July 1998)





## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	OMTVEDT, L. A. et al. Glycosylation of Immunoglobulin Light Chains Associated with Amyloidosis. Amyloid: International Journal of Experimental and Clinical Investigation. 2000, Volume 7, pages 227-244.	1-60
A	FUKUTA, K. et al. Comparative Study of the N-Glycans of Human Monoclonal Immungloblulins M Produced by Hybridoma and Parental Cells. Archives of Biochemistry and Biophysics. 01 June 2000, Volume 378, No. 1, pages 142-150.	1-60
A	TAKAHASHI, N. et al. Comparative Structural Study of the N-Linked Oligosacchrarides of Human Normal and Pathological Immunoglobulin G. Biochemistry, 1987, Volume 26, pages 1137-1144.	1-60
A	KATO, J. et al. Nucleotide Sequence of a Regulatory Region Controlling Alginate Synthesis in Pseudomonas aeruginosa: Characterization of the AlgR2 Gene. Gene. 1989, Volume 84, pages 31-38.	1-60
A *	DUMAN, J. G. et al. O-Mannosylation of Pichia Pastoris Cellular and Recombinant Proteins. Biotechnology and Applied Biochemistry. 1998, Volume 28, pages 39-45.	1-60
A	MIELE, R. G. et al. Glycosylation Properties fo the Pichia Pastoris-Expressed Recombinant Kringle 2 Domain of Tissue-Type Plasminogen Activator. Biotechnology and Applied Biochemistry. 1997, Volume 25, pages 151-1157.	1-60
A	TREMBLAY, L. O. et al. Cloning and Expression of a Specific Human Alpha 1,2-Mannosidase that Trims Man9GlcNAc2 to Man8GlcNAc2 Isomer B during N-Glycan Biosynthesis. Glycobiology. 1999, Volume 9, Number 10, pages 1073-1079.	1-60
A	VAZQUEZ-REYNA, A. B. et al. Biosynthesis of Glycoproteins in Candida Albicans: Biochemical Characterization of a Soluble Alpha-Mannosidase. FEMS Microbiology Letters. 1993, Volume 106, pages 321-326.	1-60
A	RUNGE, K. W. et al. A New Yease Mutant in the Glucosylation Steps fo the Asparagine-Linked Glycosylation Pathway. Journal of Biological Chemistry. 25 November 1986, Volume 261, No. 33, pages 15582-15590.	1-60
A	SUZUKI, C. Immunochemical and Mutational Analyses of P-Type ATPase Spf1p Involved in the Yeast Secretory Pathway. Bioscience Biotechnology Biochemistry. 2001, Volume 65, Number 11, 2405-2411.	1-60
A	AEBI, M. et al. Cloning and Characterization of the ALG3 Gene of Saccharomyces Cerevisiae. Glycobiology. 1996, Volume 6, No. 4, pages 439-444.	1-60
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